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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 05/15/2006 Torsten Vilkner KSTR 2 0005 7822 10/561,573 EXAMINER 7590 11/02/2006 DILLON JR, JOSEPH A Jay F Moldovanyi Fay Sharpe Fagan Minnich Mckee LLP ART UNIT PAPER NUMBER 1100 Superior Avenue Seventh Floor 365 I Cleveland, OH 44114-2579

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applic	ation No.	Applicant(s)		
Office Action Summary		1,573	VILKNER ET AL.	VILKNER ET AL.	
		ner	Art Unit		
		n A. Dillon, Jr.	3651		
The MAILING DATE of this comm Period for Reply	nunication appears on	the cover sheet with t	he correspondence ad	dress	
A SHORTENED STATUTORY PERIOR WHICHEVER IS LONGER, FROM THI - Extensions of time may be available under the provise after SIX (6) MONTHS from the mailing date of this or if NO period for reply is specified above, the maximus Failure to reply within the set or extended period for Any reply received by the Office later than three more earned patent term adjustment. See 37 CFR 1.704(E MAILING DATE OF ions of 37 CFR 1.136(a). In no ommunication. m statutory period will apply an eply will, by statute, cause the ths after the mailing date of thi	THIS COMMUNICAT Devent, however, may a reply and will expire SIX (6) MONTHS application to become ABAND	FION. be timely filed from the mailing date of this co	,	
Status					
 Responsive to communication(s) This action is FINAL. Since this application is in condit closed in accordance with the present the condition of the communication of the c	2b)⊠ This action i on for allowance exce	s non-final. ept for formal matters,		merits is	
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the day Of the above claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 2.3.9 and 13 is/are object to result is a subject to resu	s/are withdrawn from cted to.				
9) ☐ The specification is objected to by 10) ☑ The drawing(s) filed on 19 Decen Applicant may not request that any on Replacement drawing sheet(s) included 11) ☐ The oath or declaration is objected.	bber 2005 is/are: a) bjection to the drawing(ding the correction is rec	s) be held in abeyance. quired if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CF	R 1.121(d).	
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a cla a) All b) Some * c) None of 1. Certified copies of the prio 2. Certified copies of the prio 3. Copies of the certified copies application from the Internation	f: rity documents have b rity documents have b es of the priority docu ational Bureau (PCT f	peen received. peen received in Appli rments have been rec Rule 17.2(a)).	ication No eived in this National S	Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Revie			ail Date		
 Information Disclosure Statement(s) (PTO/SB/ Paper No(s)/Mail Date 	08)	5) Notice of Inform 6) Other:	nal Patent Application		

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DETAILED ACTION

Drawings

1. The subject matter of this application admits of illustration by a new drawing to facilitate understanding of the invention. Applicant is required to furnish a new drawing under 37 CFR 1.81(c). No new matter may be introduced in the required new drawing. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d).

The mixing system of claim(s) 9 & 13 has not been depicted.

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the control means of claim(s) 2-9 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claims 9 & 13 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

The mixing system of these claim(s) are a combination, dependent from the subcombination of a injection microchip.

4. Claims 2-3 are objected to because of the following informalities: they are substantially identical in scope. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 2-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to

which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification fails to teach(es) one skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention(s), as the limitation(s) "as required" is not adequately supported. The examiner is of the opinion that the accumulation adjacent the powder inlet would have to be sensed in some way.

Otherwise the accumulation would be very much subject to mechanical & physical properties of the powder; particle size distribution in particular. The data supplied in the Figure(s), as well as the specification itself, are silent on this.

The specification fails to teach(es) one skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention(s) as step (iii) indicates that repetition of steps (i) & (ii) moves the material to the outlet when steps (i) & (ii) merely collect, that is to say accumulate, material adjacent the powder inlet.

With regard to claim(s) 8 & 12, the specification fails to teach(es) one skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention(s) where a control action is based on the dimension of the inlet.

7. Claims 2-12 are rejected under 35 U.S.C. 112, first paragraph, because the best mode contemplated by the inventor has not been disclosed. Evidence of concealment of the best mode is based upon.

The applicant's preferred embodiment, i.e. the best mode, of the control means has not been disclosed. The examiner is not asserting that the claim(s) are not enabled

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but rather that the claimed features as envisioned by the applicant have not been delineated.

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claim(s) 1, 3 & 10, "first, open" in relation to "opening at or near to a second end" is unclear. The examiner suggests making this –open first--.

With regard to claim(s) 2-12, "as required" is unclear.

10. Claims 8 & 10-12 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: the reservoir.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (c) he has abandoned the invention.
- (d) the invention was first patented or caused to be patented, or was the subject of an inventor's certificate, by the applicant or his legal representatives or assigns in a foreign country prior to the date of the application for patent in this country on an application for patent or inventor's certificate filed more than twelve months before the filing of the application in the United States.

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- (f) he did not himself invent the subject matter sought to be patented.
- (g)(1) during the course of an interference conducted under section 135 or section 291, another inventor involved therein establishes, to the extent permitted in section 104, that before such person's invention thereof the invention was made by such other inventor and not abandoned, suppressed, or concealed, or (2) before such person's invention thereof, the invention was made in this country by another inventor who had not abandoned, suppressed, or concealed it. In determining priority of invention under this subsection, there shall be considered not only the respective dates of conception and reduction to practice of the invention, but also the reasonable diligence of one who was first to conceive and last to reduce to practice, from a time prior to conception by the other.
- 12. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Karp et al. (6,880,576).

Conclusion

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13. Be advised. While not mandatory, the examiner suggests amending claim(s) 10-12 towards claim(s) 2-9, to preclude(s) manual action, namely by including the control means, or face a possible Restriction requirement in the next Office Action.

- 14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph A. Dillon, Jr. whose telephone number is (571)272-6913. The examiner can normally be reached on 8-5:30, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571)272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY PATENT EXAMINED